



June 2008

DEPARTMENT OF EDUCATION
2007–2008 School Year Reports

Dear School Board Members and School Personnel:

The Maine Educational Assessment (MEA) is the State's measure of student progress in achieving the State standards known as *Learning Results*, adopted by the Maine Legislature in 1997. These *Learning Results* established goals for what all students should know and be able to do at certain times in their school careers and are the basis for Grade Level/Span Expectations, which describe the assessment standards for each grade. The MEA is administered to students in all grades 3 through 8 to meet state assessment requirements and the requirements of the federal *No Child Left Behind Act*.

The 2007-2008 MEA summary reports contain the results of student achievement in reading and mathematics at all grades, science and technology at grades 4 and 8, and writing at grade 5 based on achievement standards set in 2006 and disaggregated by student and school characteristics. This report, together with MEA individual student and subject-specific class analysis reports, provides support for use in program evaluation and planning.

MEA results reflect scores based on test questions that are taken in common by the approximately 15,000 students in each grade level. Students' scores in each content area are based on answers to a combination of multiple-choice questions and questions that require students to construct an answer. The grade 5 writing reports provide information on a student's ability to respond to a prompt measuring narrative writing. More information about the design of the MEA is available at www.maine.gov/education/mea/index.htm.

I look forward to working with you in support of our continued efforts to improve the quality and effectiveness of the instructional opportunities designed to help all students achieve the high standards of the *Learning Results* and demonstrate that achievement through performance on the Maine Educational Assessment.

Sincerely,

Susan A. Gendron
Commissioner of Education



School Report Grade 4

Test Date: March 2008
Code: 12151554
SAU: MSAD 21
School: Dixfield Elementary School

Contents of the Report

The report is divided into two main sections including a section describing the students tested and a separate section for the results in each content area.

<i>Topic</i>	<i>Page</i>
Summary of Scores	2
Summary of Student Participation	3
English Language Arts – Reading Results	4-6
Mathematics Results	7-9
Science and Technology Results	10-12

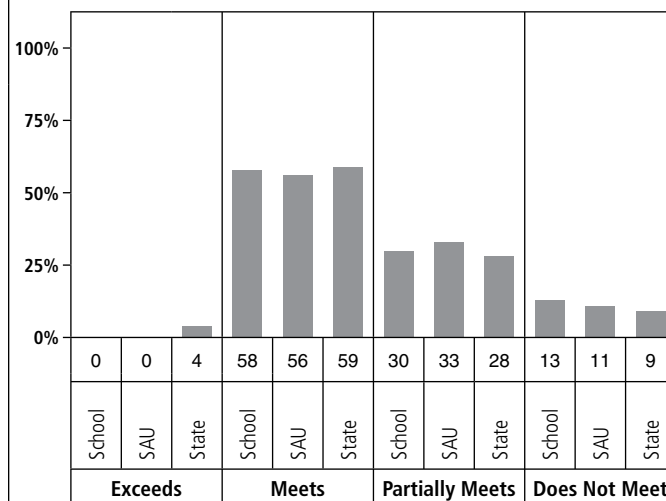
SUMMARY OF SCORES

Test Date: March 2008
Grade: 4
SAU: MSAD 21
School: Dixfield Elementary School

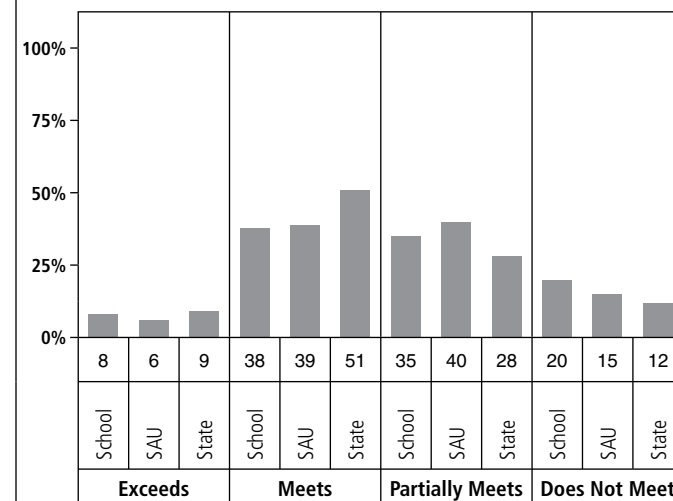
Summary of School, SAU, and State Scores

Year	Average Scaled Score		
	School	SAU	State
ELA – Reading			
2005–2006	446	443	444
2006–2007	441	440	445
2007–2008	443	443	445
Cum. Avg. *	444	442	445
Mathematics			
2005–2006	444	441	444
2006–2007	439	437	445
2007–2008	440	441	445
Cum. Avg. *	441	440	445
Science & Technology			
2005–2006	443	441	444
2006–2007	440	438	444
2007–2008	443	443	444
Cum. Avg. *	442	441	444

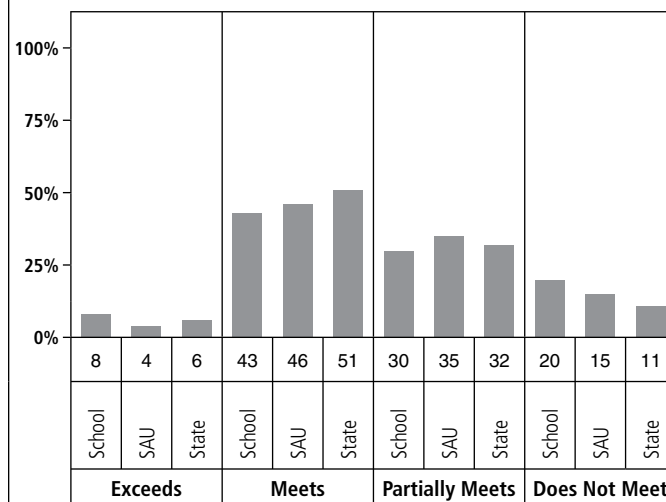
ELA – READING



MATHEMATICS



SCIENCE AND TECHNOLOGY



*Cumulative averages are weighted, i.e., the scaled scores are averaged proportionally based on the numbers of students in each year.

SUMMARY OF STUDENT PARTICIPATION

Test Date: March 2008
Grade: 4
SAU: MSAD 21
School: Dixfield Elementary School

CATEGORY OF PARTICIPATION	Enrollment ¹ during testing window						CONTENT AREA PARTICIPATION ²																							
							ELA-Reading						Mathematics						Science and Technology											
	School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Total number of students	40	100	72	100	14207	100	40	100	72	100	14181	100	40	100	72	100	14123	100	40	100	72	100	14115	99						
Ethnicity African American/Black	1	3	1	1	390	3	1	100	1	100	388	99	1	100	1	100	388	99	1	100	1	100	386	99						
American Indian or Native Alaskan	0	0	0	0	101	1	0	0	0	0	101	100	0	0	0	0	101	100	0	0	0	0	101	100						
Asian or Pacific Islander	0	0	2	3	263	2	0	0	2	100	259	98	0	0	2	100	262	100	0	0	2	100	262	100						
Hispanic	0	0	0	0	170	1	0	0	0	0	168	99	0	0	0	0	166	98	0	0	0	0	166	98						
Caucasian/White	39	98	69	96	13282	93	39	100	69	100	13264	100	39	100	69	100	13205	100	39	100	69	100	13199	99						
Not Reported	0	0	0	0	1	0	0	0	0	0	1	100	0	0	0	0	1	100	0	0	0	0	1	100						
Identified disability	2	5	6	8	2524	18	2	100	6	100	2514	100	2	100	6	100	2498	99	2	100	6	100	2494	99						
Current LEP	0	0	0	0	385	3	0	0	0	0	377	98	0	0	0	0	383	99	0	0	0	0	380	99						
Economically disadvantaged	15	38	28	39	5587	39	15	100	28	100	5569	100	15	100	28	100	5538	99	15	100	28	100	5534	99						
Migrant	0	0	0	0	5	0	0	0	0	0	5	100	0	0	0	0	5	100	0	0	0	0	5	100						

MODE OF PARTICIPATION ³	ELA-Reading						Mathematics						Science and Technology											
	School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Participation without accommodations	29	73	54	75	10755	76	29	73	54	75	10730	76	29	73	54	75	10776	76						
Identified disability (PET/IEP)	0	0	1	2	375	3	0	0	1	2	374	3	0	0	1	2	384	4						
LEP	0	0	0	0	148	1	0	0	0	0	148	1	0	0	0	0	150	1						
504 plan	0	0	0	0	114	1	0	0	0	0	114	1	0	0	0	0	115	1						
Participation with accommodations	11	28	18	25	3298	23	11	28	18	25	3267	23	11	28	18	25	3215	23						
Identified disability (PET/IEP)	2	18	5	28	2013	61	2	18	5	28	1998	61	2	18	5	28	1986	62						
LEP	0	0	0	0	225	7	0	0	0	0	233	7	0	0	0	0	229	7						
504 plan	0	0	0	0	69	2	0	0	0	0	68	2	0	0	0	0	67	2						
Other	9	82	13	72	1046	32	9	82	13	72	1023	31	9	82	13	72	987	31						
Participation through alternate assessment (PAAP)	0	0	0	0	126	1	0	0	0	0	126	1	0	0	0	0	124	1						
Identified disability (PET/IEP)	0	0	0	0	126	100	0	0	0	0	126	100	0	0	0	0	124	100						
LEP	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	1	1						
504 plan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Approved non-participation in reading – 1st year LEP	0	0	0	0	2	0																		
Approved non-participation – special consideration	0	0	0	0	15	0	0	0	0	0	16	0	0	0	0	0	12	0						
Non-participation – other	0	0	0	0	11	0	0	0	0	0	68	0	0	0	0	0	80	1						

1 Percents are the percentage of students enrolled in each participation category.

2 Percents are the percentage of students, including those who participated through alternate assessment (PAAP), who participated in the content area.

3 Percents are the percentage of students in each content area by mode.

ELA–READING RESULTS

Test Date: March 2008
Grade: 4
SAU: MSAD 21
School: Dixfield Elementary School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
Exceeds the Standards – The student’s work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing in-depth inferences, analyzing texts for subtle clues, synthesizing information across texts, and using his/her knowledge of text features and literary devices to make deeper connections within or across texts to increase comprehension. (scaled score 461–480)	2005-2006	3	5	4	5	601	4
	2006-2007	1	3	1	2	507	4
	2007-2008	0	0	0	0	559	4
	Cum. Total*	4	3	5	2	1667	4
Meets the Standards – The student’s work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing inferences, summarizing main ideas and providing supporting details, connecting ideas within and across texts, and using his/her knowledge of text features and literary devices to increase comprehension. (scaled score 441–460)	2005-2006	38	67	44	51	7910	57
	2006-2007	17	46	29	45	8749	63
	2007-2008	23	58	40	56	8308	59
	Cum. Total*	78	58	113	51	24967	60
Partially Meets the Standards – The student’s work demonstrates an inconsistent ability to read and interpret literary and informational texts appropriate for the grade level. The student’s ability to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, and use his/her knowledge of text features and literary devices varies depending on the texts. (scaled score 431–440)	2005-2006	12	21	26	30	3970	29
	2006-2007	15	41	23	36	3467	25
	2007-2008	12	30	24	33	3922	28
	Cum. Total*	39	29	73	33	11359	27
Does Not Meet the Standards – The student’s work demonstrates a limited ability to read and interpret literary and informational texts appropriate for the grade level. The student’s responses are often vague or incorrect leaving the impression that the student found it difficult to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, or use his/her knowledge of text features and literary devices to support comprehension. (scaled score 400–430)	2005-2006	4	7	12	14	1421	10
	2006-2007	4	11	11	17	1165	8
	2007-2008	5	13	8	11	1264	9
	Cum. Total*	13	10	31	14	3850	9

Learning Results Content Standard Cluster	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Total Reading Cluster	48	100	28.4	59.2	28.2	58.8	29.7	61.9
Literary Text	24	50	15.4	64.2	15.0	62.5	15.5	64.6
Informational Text	24	50	13.0	54.2	13.3	55.4	14.2	59.2

The Maine *Learning Results* reading cluster includes Content Standards A (Process of Reading), B (Literature and Culture), and D (Informational Texts). The MEA assesses students’ reading skills based on questions related to two types of reading passages: literary and informational. Passages include both long and short texts, selected from developmentally appropriate works. Items on the MEA measure Grade Level Expectations, based on Maine’s 1997 *Learning Results*, which can be found at <http://www.maine.gov/education/lsalt/gles.htm>.

ELA-READING RESULTS

(CONTINUED)

Test Date: March 2008
 Grade: 4
 SAU: MSAD 21
 School: Dixfield Elementary School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
All Students	40	0	0	23	58	12	30	5	13	443	72	0	56	33	11	443	14053	4	59	28	9	445
Ethnicity																						
African American/Black	1										1						384	1	36	35	28	438
American Indian or Native Alaskan	0										0						101	1	46	44	10	442
Asian or Pacific Islander	0										2						259	6	61	22	11	445
Hispanic	0										0						164	0	45	38	16	440
Caucasian/White	39	0	0	23	59	12	31	4	10	444	69	0	57	33	10	443	13144	4	60	28	8	445
Not Reported	0										0						1					
Identified disability																						
Yes	2										6	0	0	67	33	430	2388	0	29	44	26	437
No	38	0	0	23	61	11	29	4	11	444	66	0	61	30	9	444	11665	5	65	25	6	446
Current LEP																						
Yes	0										0						373	1	32	35	32	436
No	40	0	0	23	58	12	30	5	13	443	72	0	56	33	11	443	13680	4	60	28	8	445
Economically disadvantaged																						
Yes	15	0	0	9	60	3	20	3	20	442	28	0	54	32	14	442	5502	1	47	37	14	441
No	25	0	0	14	56	9	36	2	8	444	44	0	57	34	9	443	8551	6	67	22	5	447
Migrant																						
Yes	0										0						5	0	40	60	0	445
No	40	0	0	23	58	12	30	5	13	443	72	0	56	33	11	443	14048	4	59	28	9	445
Gender																						
Female	16	0	0	12	75	2	13	2	13	447	29	0	76	17	7	447	6959	5	61	26	8	446
Male	24	0	0	11	46	10	42	3	13	441	43	0	42	44	14	440	7093	3	57	30	10	444
Not Reported	0										0						1					
Title 1A targeted program																						
Yes	5	0	0	1	20	2	40	2	40	438	19	0	26	53	21	438	1890	0	37	46	17	439
No	35	0	0	22	63	10	29	3	9	444	53	0	66	26	8	445	12163	5	63	25	8	446
Gifted/talented program																						
Yes	0										1						266	21	74	4	0	456
No	40	0	0	23	58	12	30	5	13	443	71	0	55	34	11	443	13787	4	59	28	9	445

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

ELA–READING RESULTS

(QUESTIONNAIRE ITEMS)

Test Date: March 2008
 Grade: 4
 SAU: MSAD 21
 School: Dixfield Elementary School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
How much homework do you do on school nights?																						
A. none	5	0	0	0	0	1	50	1	50	432	4	0	0	67	33	433	5	1	42	36	21	440
B. less than one hour	50	0	0	14	70	4	20	2	10	445	57	0	66	24	10	444	74	4	62	27	7	445
C. one to two hours	45	0	0	9	50	7	39	2	11	443	38	0	48	41	11	442	18	5	59	29	7	446
D. more than two hours	0										1	0	0	100	0	440	2	3	32	34	31	438
How well do the questions that you have just been given on this MEA test match what you have learned in school about reading?																						
A. The questions on the test match what I have learned in reading class.	38	0	0	11	73	3	20	1	7	446	33	0	71	21	8	445	30	6	63	24	7	446
B. They match some of what I have learned.	50	0	0	9	45	7	35	4	20	440	50	0	56	31	14	442	52	4	63	27	6	446
C. They match just a little of what I have learned.	13	0	0	3	60	2	40	0	0	446	14	0	30	60	10	440	12	2	46	37	15	441
D. There is no match.	0										3	0	0	100	0	438	5	0	33	40	26	437
Which of the following best describes how you rate yourself as a student in reading?																						
A. very good	33	0	0	8	62	3	23	2	15	444	31	0	59	32	9	445	35	7	66	20	6	448
B. good	63	0	0	14	56	8	32	3	12	443	57	0	59	34	7	444	51	3	60	29	7	445
C. fair	3	0	0	0	0	1	100	0	0	432	10	0	29	43	29	434	12	1	44	40	16	440
D. poor	3	0	0	1	100	0	0	0	0	444	3	0	50	0	50	433	2	0	23	47	30	436
How hard was the reading part of this test?																						
A. harder than my regular schoolwork	10	0	0	1	25	1	25	2	50	433	11	0	13	38	50	432	19	2	46	34	17	442
B. about the same as my regular schoolwork	60	0	0	15	63	7	29	2	8	445	65	0	62	32	6	444	62	5	64	26	5	446
C. easier than my regular schoolwork	30	0	0	7	58	4	33	1	8	444	24	0	59	35	6	444	18	3	58	29	10	444
How hard were the reading passages on this test?																						
A. Most of the passages were more difficult than what I usually read.	10	0	0	2	50	0	0	2	50	438	14	0	20	50	30	437	14	0	32	46	22	438
B. Most of the passages were about the same as what I usually read.	55	0	0	12	55	7	32	3	14	442	56	0	60	30	10	443	52	3	62	28	7	445
C. Most of the passages were easier than what I usually read.	35	0	0	9	64	5	36	0	0	447	31	0	64	32	5	446	33	7	68	20	5	448
How much time do you spend reading at home each day?																						
A. more than one hour	23	0	0	6	67	2	22	1	11	446	18	0	69	23	8	446	18	7	64	22	7	447
B. 20 minutes to an hour	35	0	0	9	64	3	21	2	14	443	44	0	59	31	9	444	55	4	64	26	6	446
C. less than 20 minutes	13	0	0	3	60	1	20	1	20	444	17	0	58	25	17	443	14	2	53	33	12	443
D. I rarely read at home.	30	0	0	5	42	6	50	1	8	441	21	0	33	53	13	439	13	1	44	39	16	441
How many pages do you read in school and to complete homework assignments?																						
A. five or fewer pages	26	0	0	7	70	1	10	2	20	443	29	0	55	25	20	441	23	3	50	34	13	442
B. six to ten pages	51	0	0	11	55	6	30	3	15	443	48	0	58	33	9	444	25	3	60	29	8	444
C. eleven or more pages	23	0	0	5	56	4	44	0	0	444	23	0	56	38	6	444	52	5	64	24	6	446
Optional school/SAU question																						
A.	0										100	0	0	100	0	440						
B.	0										0											
C.	0										0											
D.	0										0											

MATHEMATICS RESULTS

Test Date: March 2008
Grade: 4
SAU: MSAD 21
School: Dixfield Elementary School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
Exceeds the Standards – The student’s work demonstrates in-depth understanding of essential concepts in mathematics, including the ability to make multiple connections among central ideas. The student’s responses demonstrate the ability to synthesize information; analyze and solve difficult problems, including developing and implementing strategies, efficiently and accurately performing procedures, and recording and justifying solutions; and explain complex concepts. (scaled score 461–480)	2005-2006	6	11	7	8	1294	9
	2006-2007	0	0	0	0	1054	8
	2007-2008	3	8	4	6	1321	9
	Cum. Total*	9	7	11	5	3669	9
Meets the Standards – The student’s work demonstrates a general understanding of essential concepts in mathematics, including the ability to make connections among central ideas. The student’s responses demonstrate the ability to analyze and solve problems including developing and implementing strategies, to perform procedures, and to record and explain solutions and concepts. The student’s work may contain minor errors. (scaled score 441–460)	2005-2006	28	49	35	41	7000	50
	2006-2007	15	41	24	38	7394	53
	2007-2008	15	38	28	39	7079	51
	Cum. Total*	58	43	87	39	21473	51
Partially Meets the Standards – The student’s work demonstrates incomplete understanding of essential concepts in mathematics and inconsistent connections among central ideas. The student’s responses demonstrate some ability to analyze and solve problems, and explain concepts. Problem solving strategies may be flawed, procedures performed inaccurately, methods not recorded and/or problems not completed. (scaled score 429–440)	2005-2006	13	23	25	29	3784	27
	2006-2007	15	41	25	39	3729	27
	2007-2008	14	35	29	40	3955	28
	Cum. Total*	42	31	79	36	11468	27
Does Not Meet the Standards – The student’s work demonstrates limited understanding of essential concepts in mathematics and infrequent or inaccurate connections among central ideas. The student’s responses demonstrate minimal ability to solve problems and explain concepts. Problem solving strategies and procedures are often flawed or inappropriate and there may be many omissions. (scaled score 400–428)	2005-2006	10	18	19	22	1894	14
	2006-2007	7	19	15	23	1735	12
	2007-2008	8	20	11	15	1642	12
	Cum. Total*	25	19	45	20	5271	13

Learning Results Content Standard Clusters	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Cluster 1: Numbers and Operations	15	31	8.1	54.0	8.1	54.0	9.5	63.3
Cluster 2: Shape and Size	14	29	8.6	61.4	8.3	59.3	9.1	65.0
Cluster 3: Mathematical Decision Making	5	10	3.5	70.0	3.7	74.0	3.4	68.0
Cluster 4: Patterns	14	29	8.5	60.7	8.8	62.9	9.7	69.3

- Cluster 1: Numbers and Operations**
A. Numbers and Number Sense
B. Computation
I. Discrete Mathematics (grades 3 and 4 only)
- Cluster 2: Shape and Size**
E. Geometry
F. Measurement
- Cluster 3: Mathematical Decision Making**
C. Data Analysis and Statistics
D. Probability
- Cluster 4: Patterns**
G. Patterns, Relations, and Functions
H. Algebra Concepts
K. Mathematical Communication

Each content standard in the clusters above is defined in Maine’s 1997 *Learning Results*, which are the basis for Grade Level Expectations. Each item on the MEA measures a grade level expectation, which can be found at <http://www.maine.gov/education/lsalt/gles.htm>.



MATHEMATICS RESULTS

(CONTINUED)

Test Date: March 2008
 Grade: 4
 SAU: MSAD 21
 School: Dixfield Elementary School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
All Students	40	3	8	15	38	14	35	8	20	440	72	6	39	40	15	441	13997	9	51	28	12	445
Ethnicity																						
African American/Black	1										1						386	4	26	34	36	434
American Indian or Native Alaskan	0										0						101	3	46	41	11	442
Asian or Pacific Islander	0										2						262	14	51	23	12	447
Hispanic	0										0						162	4	41	34	21	440
Caucasian/White	39	3	8	15	38	14	36	7	18	441	69	6	39	42	13	441	13085	10	51	28	11	446
Not Reported	0										0						1					
Identified disability																						
Yes	2										6	0	0	67	33	427	2372	3	31	36	30	436
No	38	3	8	15	39	13	34	7	18	441	66	6	42	38	14	442	11625	11	54	27	8	447
Current LEP																						
Yes	0										0						381	4	33	28	35	435
No	40	3	8	15	38	14	35	8	20	440	72	6	39	40	15	441	13616	10	51	28	11	445
Economically disadvantaged																						
Yes	15	0	0	5	33	6	40	4	27	437	28	0	39	39	21	438	5472	5	41	35	19	440
No	25	3	12	10	40	8	32	4	16	442	44	9	39	41	11	442	8525	13	56	24	7	448
Migrant																						
Yes	0										0						5	0	80	20	0	448
No	40	3	8	15	38	14	35	8	20	440	72	6	39	40	15	441	13992	9	51	28	12	445
Gender																						
Female	16	2	13	4	25	5	31	5	31	440	29	7	31	41	21	440	6933	9	50	29	12	445
Male	24	1	4	11	46	9	38	3	13	441	43	5	44	40	12	441	7063	10	51	27	11	446
Not Reported	0										0						1					
Title 1A targeted program																						
Yes	5	0	0	2	40	1	20	2	40	436	19	0	37	37	26	438	1890	2	34	41	23	438
No	35	3	9	13	37	13	37	6	17	441	53	8	40	42	11	441	12107	11	53	26	10	446
Gifted/talented program																						
Yes	0										1						266	45	49	5	0	461
No	40	3	8	15	38	14	35	8	20	440	71	4	39	41	15	440	13731	9	51	29	12	445

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

MATHEMATICS RESULTS

(QUESTIONNAIRE ITEMS)

Test Date: March 2008
Grade: 4
SAU: MSAD 21
School: Dixfield Elementary School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
How much homework do you do on school nights?																						
A. none	5	0	0	1	50	1	50	0	0	439	4	0	33	33	33	431	5	6	34	33	27	438
B. less than one hour	50	3	15	5	25	8	40	4	20	441	57	10	37	41	12	443	74	10	52	28	10	446
C. one to two hours	45	0	0	9	50	5	28	4	22	439	38	0	44	37	19	439	18	10	52	28	10	446
D. more than two hours	0										1	0	0	100	0	434	2	5	33	28	34	436
How well do the questions that you have just been given on this MEA test match what you have learned in school about mathematics?																						
A. The questions on the test match what I have learned in mathematics class.	30	0	0	4	33	5	42	3	25	434	33	0	46	42	13	438	38	13	56	23	8	448
B. They match some of what I have learned.	63	3	12	11	44	7	28	4	16	445	51	11	41	32	16	444	48	8	52	29	10	445
C. They match just a little of what I have learned.	8	0	0	0	0	2	67	1	33	428	14	0	20	70	10	436	10	4	35	39	22	439
D. There is no match.	0										1	0	0	0	100	420	4	2	25	33	40	433
Which of the following best describes how you rate yourself as a student in mathematics?																						
A. very good	45	2	11	8	44	4	22	4	22	440	35	8	44	28	20	440	35	16	55	20	8	449
B. good	45	1	6	4	22	9	50	4	22	438	49	6	34	46	14	440	48	7	52	31	11	445
C. fair	10	0	0	3	75	1	25	0	0	450	15	0	36	55	9	441	14	3	41	38	18	440
D. poor	0										0						3	1	29	36	34	435
How hard was the mathematics part of this test?																						
A. harder than my regular schoolwork	8	0	0	1	33	1	33	1	33	439	13	11	33	33	22	440	15	4	38	33	25	439
B. about the same as my regular schoolwork	73	1	3	11	38	11	38	6	21	439	69	2	40	44	14	440	64	10	54	28	9	446
C. easier than my regular schoolwork	20	2	25	3	38	2	25	1	13	444	18	15	38	31	15	443	21	13	52	24	11	447
How often do you use hands-on materials in mathematics class?																						
A. almost every day	0										7	0	20	60	20	435	23	8	47	29	16	443
B. two or three days a week	53	3	14	8	38	7	33	3	14	443	39	14	36	39	11	443	36	11	54	27	9	447
C. two or three times each month	35	0	0	5	36	5	36	4	29	437	32	0	43	35	22	440	25	10	53	27	10	446
D. never or almost never	13	0	0	2	40	2	40	1	20	434	22	0	44	44	13	439	16	9	46	32	13	444
How often do you use calculators in mathematics class?																						
A. almost every day	3	0	0	0	0	0	0	1	100	400	4	0	0	33	67	417	5	3	30	33	33	436
B. two or three days a week	13	2	40	2	40	1	20	0	0	456	10	29	43	14	14	451	19	8	50	30	12	445
C. two or three times each month	44	1	6	9	53	5	29	2	12	445	30	5	57	29	10	445	38	11	55	26	8	447
D. never or almost never	41	0	0	4	25	7	44	5	31	433	56	3	33	50	15	438	38	9	50	29	12	445
On average, how many minutes a day do you spend working on mathematics in class?																						
A. less than 30 minutes	8	0	0	1	33	2	67	0	0	437	13	0	56	44	0	443	8	3	33	38	25	438
B. 30–45 minutes	5	0	0	1	50	0	0	1	50	444	25	6	28	50	17	440	27	6	48	33	13	443
C. 45–60 minutes	85	2	6	13	38	12	35	7	21	440	58	5	40	38	17	440	38	11	54	26	9	447
D. more than 60 minutes	3	1	100	0	0	0	0	0	0	466	4	33	33	0	33	444	26	13	55	23	9	448
Optional school/SAU question																						
A.	0										100	0	0	100	0	434						
B.	0										0											
C.	0										0											
D.	0										0											

SCIENCE AND TECHNOLOGY RESULTS

Test Date: March 2008
Grade: 4
SAU: MSAD 21
School: Dixfield Elementary School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
Exceeds the Standards – The student’s work demonstrates in-depth understanding of essential concepts in science, including the ability to make multiple connections among central ideas. The student’s responses demonstrate the ability to synthesize information, analyze and solve difficult problems using the processes of scientific inquiry, and explain complex concepts using evidence and proper terminology to support and communicate logical conclusions. (scaled score 461–480)	2005-2006	1	2	1	1	751	5
	2006-2007	1	3	2	3	963	7
	2007-2008	3	8	3	4	882	6
	Cum. Total*	5	4	6	3	2596	6
Meets the Standards – The student’s work demonstrates a general understanding of essential concepts in science, including the ability to make connections among central ideas. The student’s responses demonstrate the ability to analyze and solve routine problems using the processes of scientific inquiry and explain central concepts with sufficient clarity and accuracy to demonstrate general understanding. (scaled score 441–460)	2005-2006	32	56	40	47	7251	52
	2006-2007	13	35	19	30	6824	49
	2007-2008	17	43	33	46	7130	51
	Cum. Total*	62	46	92	41	21205	51
Partially Meets the Standards – The student’s work demonstrates incomplete understanding of essential concepts in science and inconsistent connections among central ideas. The student’s responses demonstrate some ability to analyze and solve problems using scientific inquiry but the quality of responses is inconsistent. Explanation of concepts may be incomplete or unclear. (scaled score 429–440)	2005-2006	16	28	33	38	4514	32
	2006-2007	15	41	28	44	4382	32
	2007-2008	12	30	25	35	4433	32
	Cum. Total*	43	32	86	39	13329	32
Does Not Meet the Standards – The student’s work demonstrates limited understanding of essential concepts in science and infrequent or inaccurate connections among central ideas. The student’s responses demonstrate minimal ability to solve problems and use the skills of scientific inquiry. There are many inaccuracies and explanations are illogical, incomplete, or missing. (scaled score 400–428)	2005-2006	8	14	12	14	1458	10
	2006-2007	8	22	15	23	1735	12
	2007-2008	8	20	11	15	1546	11
	Cum. Total*	24	18	38	17	4739	11

Learning Results Content Standard Clusters	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Cluster 1: Life Sciences	12	25	7.8	65.0	7.4	61.7	8.0	66.7
Cluster 2: Physical Sciences	12	25	7.7	64.2	7.5	62.5	7.2	60.0
Cluster 3: Earth and Space Sciences	12	25	6.8	56.7	6.8	56.7	7.4	61.7
Cluster 4: Nature and Implications of Science	12	25	7.5	62.5	7.7	64.2	7.6	63.3

Cluster 1: Life Sciences

- A. Classifying Life Forms
- B. Ecology
- C. Cells

Cluster 2: Physical Sciences

- E. Structure of Matter
- H. Energy
- I. Motion

Cluster 3: Earth and Space Sciences

- D. Continuity and Change
- F. The Earth
- G. The Universe

Cluster 4: Nature and Implications of Science

- J. Inquiry and Problem Solving
- K. Scientific Reasoning
- L. Communication
- M. Implications of Science & Technology

Each content standard in the clusters shown is defined in Maine’s 1997 *Learning Results*, which are the basis for science and technology Grade Span Expectations. Each item on the MEA measures a grade span expectation, which can be found at <http://www.maine.gov/education/lsalt/gles.htm>.

SCIENCE AND TECHNOLOGY RESULTS

(CONTINUED)

Test Date: March 2008
Grade: 4
SAU: MSAD 21
School: Dixfield Elementary School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
All Students	40	3	8	17	43	12	30	8	20	443	72	4	46	35	15	443	13991	6	51	32	11	444
Ethnicity																						
African American/Black	1										1						385	2	27	35	36	434
American Indian or Native Alaskan	0										0						101	3	44	44	10	441
Asian or Pacific Islander	0										2						262	5	52	28	14	443
Hispanic	0										0						162	2	38	39	21	439
Caucasian/White	39	3	8	17	44	12	31	7	18	444	69	4	46	36	13	443	13080	7	52	31	10	444
Not Reported	0										0						1					
Identified disability																						
Yes	2										6	0	17	33	50	432	2370	2	32	41	25	437
No	38	3	8	16	42	12	32	7	18	444	66	5	48	35	12	444	11621	7	55	30	8	445
Current LEP																						
Yes	0										0						379	1	25	35	39	433
No	40	3	8	17	43	12	30	8	20	443	72	4	46	35	15	443	13612	6	52	32	10	444
Economically disadvantaged																						
Yes	15	0	0	8	53	4	27	3	20	442	28	0	54	32	14	442	5470	3	41	39	18	440
No	25	3	12	9	36	8	32	5	20	444	44	7	41	36	16	443	8521	9	57	27	7	446
Migrant																						
Yes	0										0						5	20	20	40	20	443
No	40	3	8	17	43	12	30	8	20	443	72	4	46	35	15	443	13986	6	51	32	11	444
Gender																						
Female	16	2	13	6	38	6	38	2	13	446	29	7	52	31	10	445	6929	6	49	33	12	443
Male	24	1	4	11	46	6	25	6	25	442	43	2	42	37	19	441	7061	7	53	30	10	444
Not Reported	0										0						1					
Title 1A targeted program																						
Yes	5	0	0	2	40	1	20	2	40	437	19	0	42	37	21	439	1888	1	32	44	23	437
No	35	3	9	15	43	11	31	6	17	444	53	6	47	34	13	444	12103	7	54	30	9	445
Gifted/talented program																						
Yes	0										1						266	30	65	5	1	457
No	40	3	8	17	43	12	30	8	20	443	71	4	45	35	15	442	13725	6	51	32	11	444

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

SCIENCE AND TECHNOLOGY RESULTS

(QUESTIONNAIRE ITEMS)

Test Date: March 2008
Grade: 4
SAU: MSAD 21
School: Dixfield Elementary School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
How much homework do you do on school nights?																						
A. none	5	0	0	1	50	0	0	1	50	431	4	0	33	0	67	430	5	4	37	36	22	439
B. less than one hour	50	2	10	7	35	9	45	2	10	444	57	5	46	41	7	444	74	6	53	31	10	444
C. one to two hours	45	1	6	9	50	3	17	5	28	444	38	4	48	26	22	442	18	7	52	32	8	445
D. more than two hours	0										1	0	0	100	0	438	2	4	31	33	32	437
How well do the questions that you have just been given on this MEA test match what you have learned in school about science?																						
A. The questions on the test match what I have learned in science class.	20	1	13	5	63	0	0	2	25	447	21	7	47	20	27	441	24	9	53	28	10	446
B. They match some of what I have learned.	70	1	4	10	36	12	43	5	18	442	58	2	43	40	14	442	49	6	54	31	9	445
C. They match just a little of what I have learned.	10	1	25	2	50	0	0	1	25	450	19	7	57	29	7	445	21	4	47	36	13	442
D. There is no match.	0										1	0	0	100	0	440	6	2	35	37	25	438
Which of the following best describes how you rate yourself as a student in science?																						
A. very good	18	1	14	3	43	2	29	1	14	447	15	9	45	27	18	444	25	9	53	27	10	446
B. good	68	2	7	12	44	8	30	5	19	443	61	5	52	27	16	443	54	6	55	30	9	445
C. fair	15	0	0	2	33	2	33	2	33	440	22	0	31	56	13	440	19	3	43	40	15	441
D. poor	0										1	0	0	100	0	432	3	2	28	42	29	435
How difficult was the science part of this test?																						
A. harder than my regular schoolwork	8	0	0	1	33	0	0	2	67	434	21	0	40	33	27	439	22	5	45	35	15	442
B. about the same as my regular schoolwork	73	2	7	14	48	9	31	4	14	445	61	5	55	32	9	445	62	7	53	31	9	445
C. easier than my regular schoolwork	20	1	13	2	25	3	38	2	25	442	18	8	23	46	23	440	16	7	52	28	13	444
How often do you have science classes?																						
A. every day	13	0	0	2	40	2	40	1	20	442	31	0	50	36	14	443	24	7	48	33	12	444
B. a few times a week	83	3	9	15	45	9	27	6	18	445	64	7	48	30	15	444	53	7	54	31	9	445
C. once a week	3	0	0	0	0	1	100	0	0	438	3	0	0	100	0	438	9	6	46	33	15	442
D. a few times a month	3	0	0	0	0	0	0	1	100	416	3	0	0	50	50	423	14	5	50	31	14	443
Which statement best describes how you learn science?																						
A. I mostly read a textbook and answer questions, and/or take notes and do assignments. I use science kits for demonstrations and experiments.	13	1	20	4	80	0	0	0	0	455	22	6	56	31	6	445	25	5	48	34	13	443
B. I work in groups to design and conduct experiments.	23	1	11	4	44	2	22	2	22	446	21	7	33	40	20	442	27	4	46	37	13	442
C. I do a combination of A and B, but mostly A.	38	0	0	4	27	7	47	4	27	437	36	0	42	38	19	441	26	7	56	28	8	445
D. I do a combination of A and B, but mostly B.	28	1	9	5	45	3	27	2	18	445	21	7	53	27	13	445	22	9	55	26	9	446
Optional school/SAU question																						
A.	0										100	0	0	100	0	440						
B.	0										0											
C.	0										0											
D.	0										0											